



Patent  
Attorney Docket No. 040072-266

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Elias Jonsson et al.

Application No.: 10/763,755

Filing Date: January 23, 2004

Title: DIGITAL COMMUNICATIONS SYSTEMS HAVING DECREASED MEMORY

Group Art Unit: 2681

Examiner: Unassigned

Confirmation No.: 7623

**FIRST  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a **FIRST** Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.


- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☐ Charge \_\_\_\_\_ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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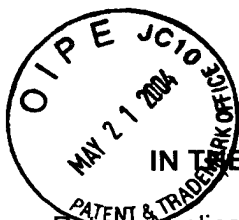
By   
Theodosios Thomas  
Registration No. 45,159

Date: May 19, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit: May 19, 2004

  
Kathryn L. Boyd  
Typed Name:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )

Elias Jonsson et al. )

Application No.: 10/763,755 )

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For: DIGITAL COMMUNICATIONS )  
SYSTEMS HAVING DECREASED )  
MEMORY )

**Mail Stop: Amendment**

Group Art Unit: 2681

Examiner: Unassigned

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**FIRST INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

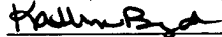
In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 19, 2004


  
Kathryn Boyd

Date May 19, 2004

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date May 19, 2004

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# **FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

**Complete if Known**

<b>Application Number</b>	10/763,755
<b>Filing Date</b>	January 23, 2004
<b>First Named Inventor</b>	Elias Jonsson et al.
<b>Examiner Name</b>	Unassigned
<b>Attorney Docket Number</b>	040072-266

**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	5 305 349		Dent	04-19-1994
	2001/0028677	A1	Wang et al.	10-11-2001
	6 363 104	B1	Bottomley	03-26-2002
	6 714 585	B1	Wang et al.	03-30-2004

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	
					Yes	No
	1 124 346	A1	EP	08-16-2001		
	1 207 714	A1	EP	05-22-2002		

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	"Comparison on RLC HARQ and fast HARQ complexity", TSG-RAN Working Group 1 meeting #15, Berlin, Germany, August 22 <sup>nd</sup> -25 <sup>th</sup> , 2000; TSGR1(00)1083:1-4.
	"Digital Baseband Architecture Scenarios for a Multi-Mode Radio", information society technologies, Project MuMoR, IST-2001-34561: 1-63.
	Falahati, Sorour et al., "Hybrid type-II ARQ/AMS and Scheduling using Channel Prediction for Downlink Packet Transmission on Fading Channels".
	Kolding, Troels E. et al., "Performance Aspects of WCDMA Systems with High Speed Downlink Packet Access (HSDPA), Nokia Networks, Aalborg R&D, Denmark.
	"Multiplexing and channel coding (FDD), Release 5", 3GPP TS 25.212, V 5.6.0, (2003-09).
	Tantikovit, Sukvasant et al., "A New RAKE Receiver Structure for the Forward-Link of W-CDMA Systems", IEICE Trans. Commun., Vol. E85-B, No. 6: 1218-1222, June 2002.
	Vivier, Guillaume, "Simulations of HARQ for Turbo-coded services in UMTS-TDD", Motorola Labs -Centre de Recherche de Motorola-Paris.
	Wehinger, Joachim, "Performance Analysis of Iterative CDMA Receivers with Channel Estimation in Flat Fading Channels", Mobile Communications Group, Vienna Telecomm. Research Center (ftw.), Austria.

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.